

V&V Reference Report

L2 ASCDS Version : 7.6.8

Observation 4118 - L2 Version 001
Chandra X-Ray Center

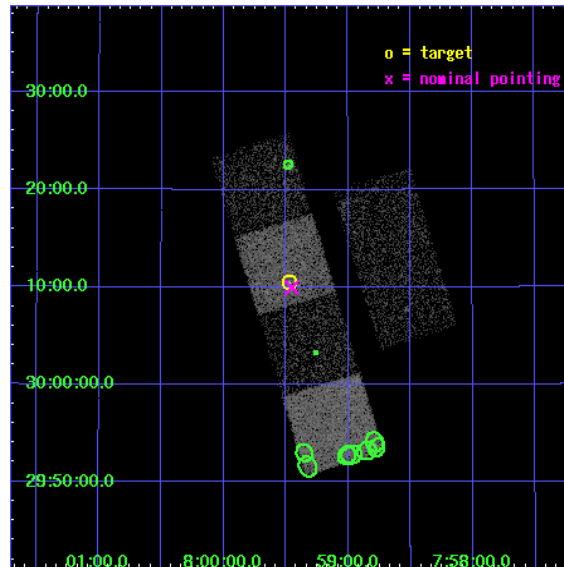
L2 Processing Date : Jul 24 2006

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1 Front

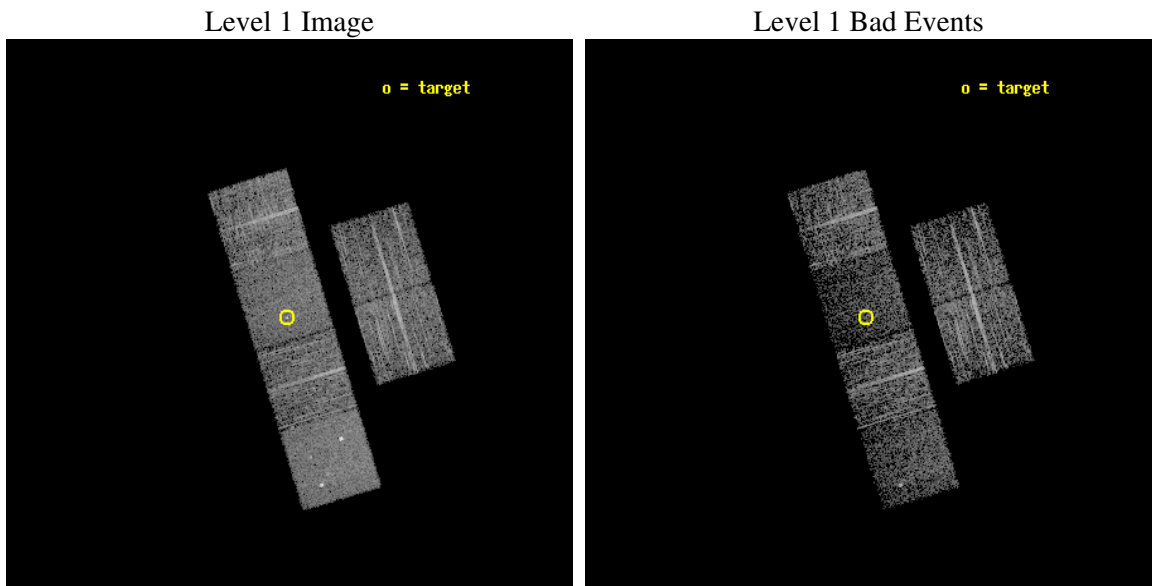
| | |
|----------|--|
| seq_num | 700797 |
| obs_id | 4118 |
| title | WHAT KIND OF JETS DOES NATURE MAKE? X-RAY CHARACTERIZATION OF THE FIRST FLAT SPECTRUM SAMPLE |
| observer | Dr. Giovanni Fossati |
| object | TXS 0756+303 |
| dtcycle | 0 |
| cycle | P |
| ra_targ | 119.867917 |
| dec_targ | 30.174722 |
| ra_nom | 119.86298075182 |
| dec_nom | 30.166211318093 |
| roll_nom | 253.10184637639 |
| revision | 2 |
| ontime | 4463.9999833703 |
| livetime | 4407.4741276828 |
| ontime2 | 4460.7589931786 |
| ontime3 | 4463.9999833703 |
| ontime5 | 4463.9999833703 |
| ontime6 | 4463.9999833703 |
| ontime7 | 4463.9999833703 |
| ontime8 | 4463.9999833703 |
| l2events | 32192 |



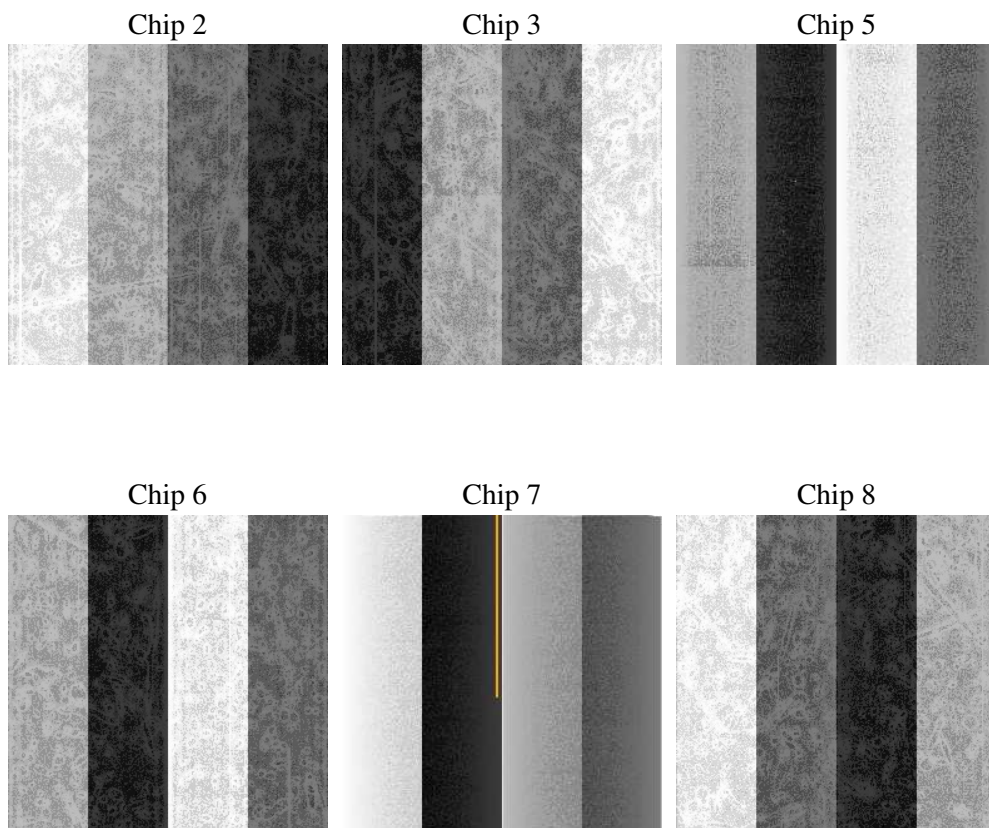
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

| | |
|----------|---------------------|
| obi_num | 0 |
| ascdsver | 7.6.8 |
| caldsver | 3.2.2 |
| date | 2006-07-24T17:10:49 |
| revision | 2 |

| | |
|----------------|-----------------|
| sched_exp_time | 4500.000000 |
| ontime | 4469.3397685289 |
| ontime2 | 4466.0987584293 |
| ontime3 | 4469.3397685289 |
| ontime5 | 4469.3397685289 |
| ontime6 | 4469.3397685289 |
| ontime7 | 4469.3397685289 |
| ontime8 | 4469.3397685289 |
| l1events | 147414 |

2.1.4 Events

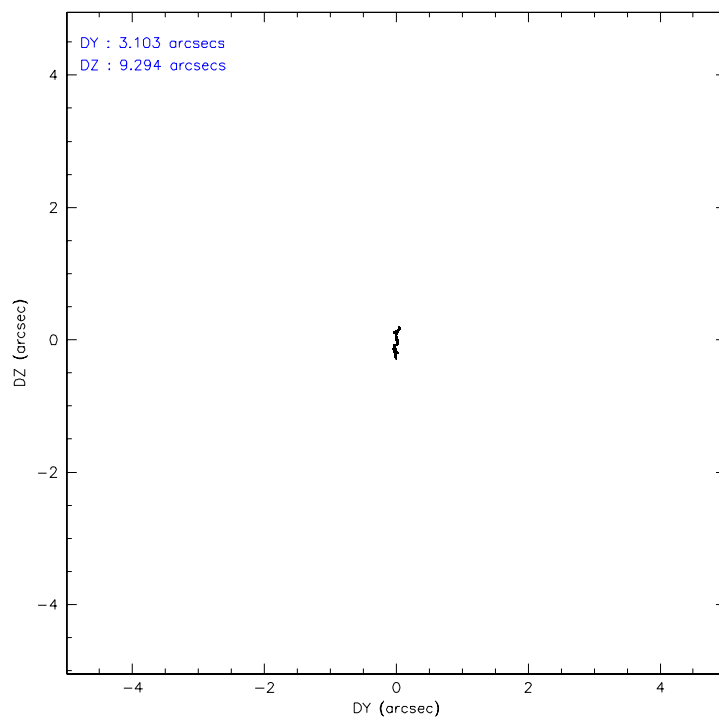
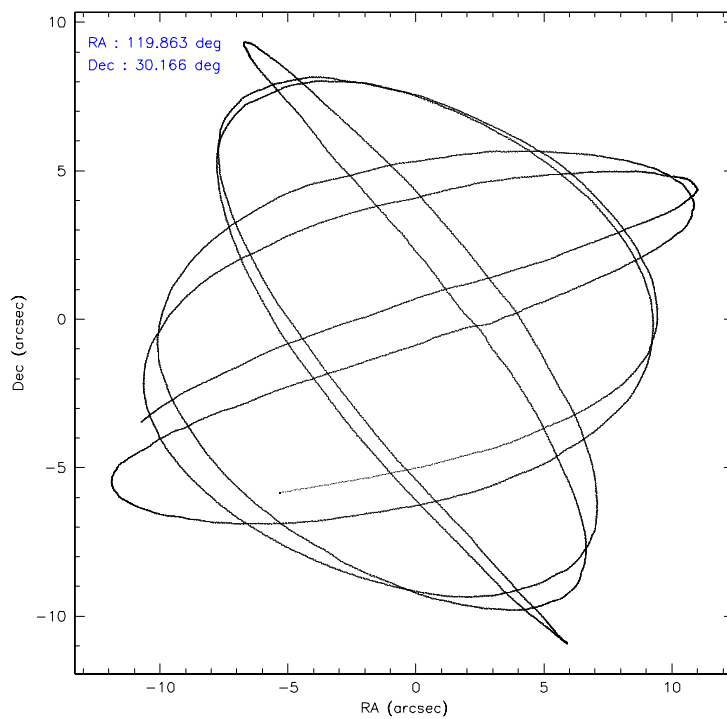
| | ccd 2 | ccd 3 | ccd 5 | ccd 6 | ccd 7 | ccd 8 |
|-----------------|-------|-------|-------|-------|-------|-------|
| level 1 events | 25468 | 21048 | 28745 | 22696 | 22225 | 27232 |
| rejected events | 23239 | 19017 | 13411 | 20355 | 11230 | 21174 |
| rejected % | 91% | 90% | 46% | 89% | 50% | 77% |

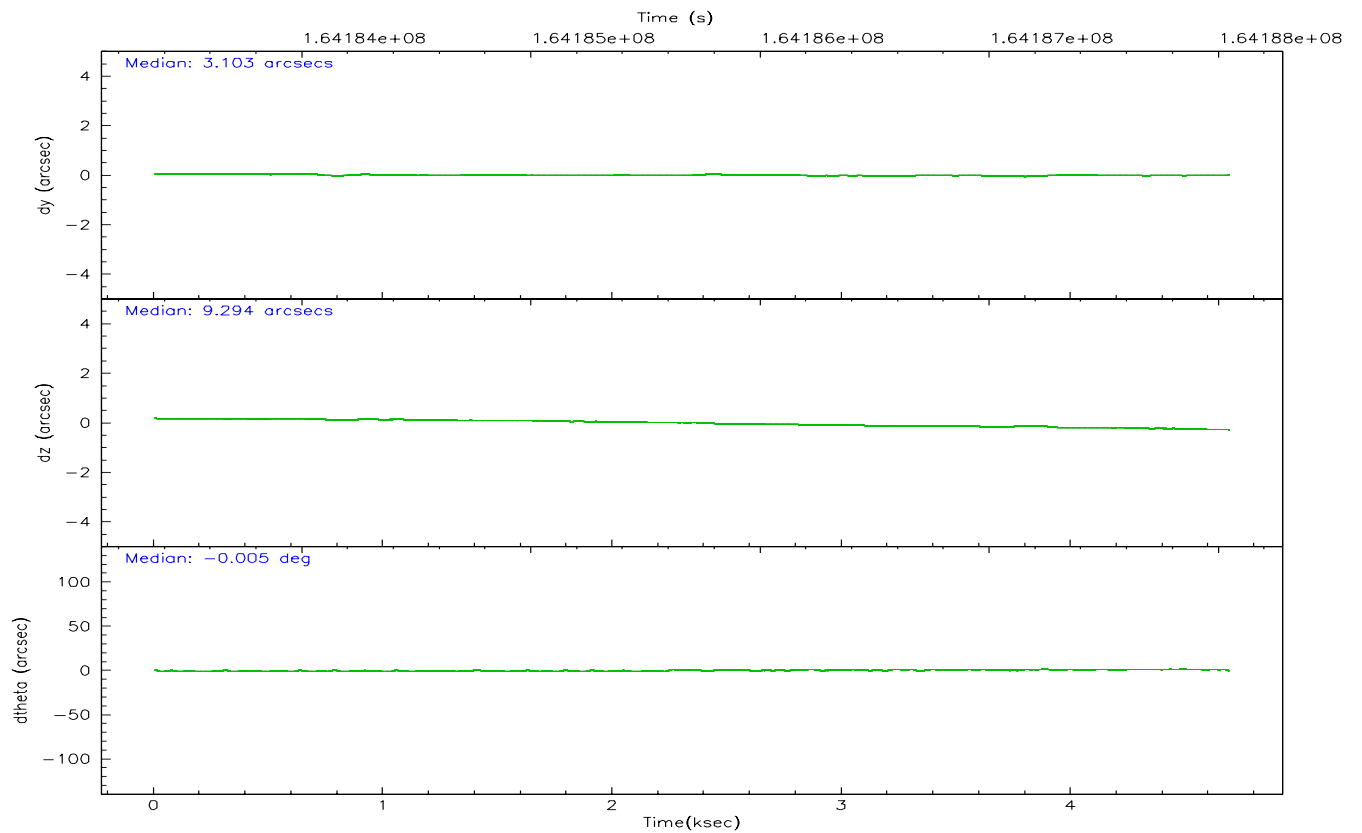
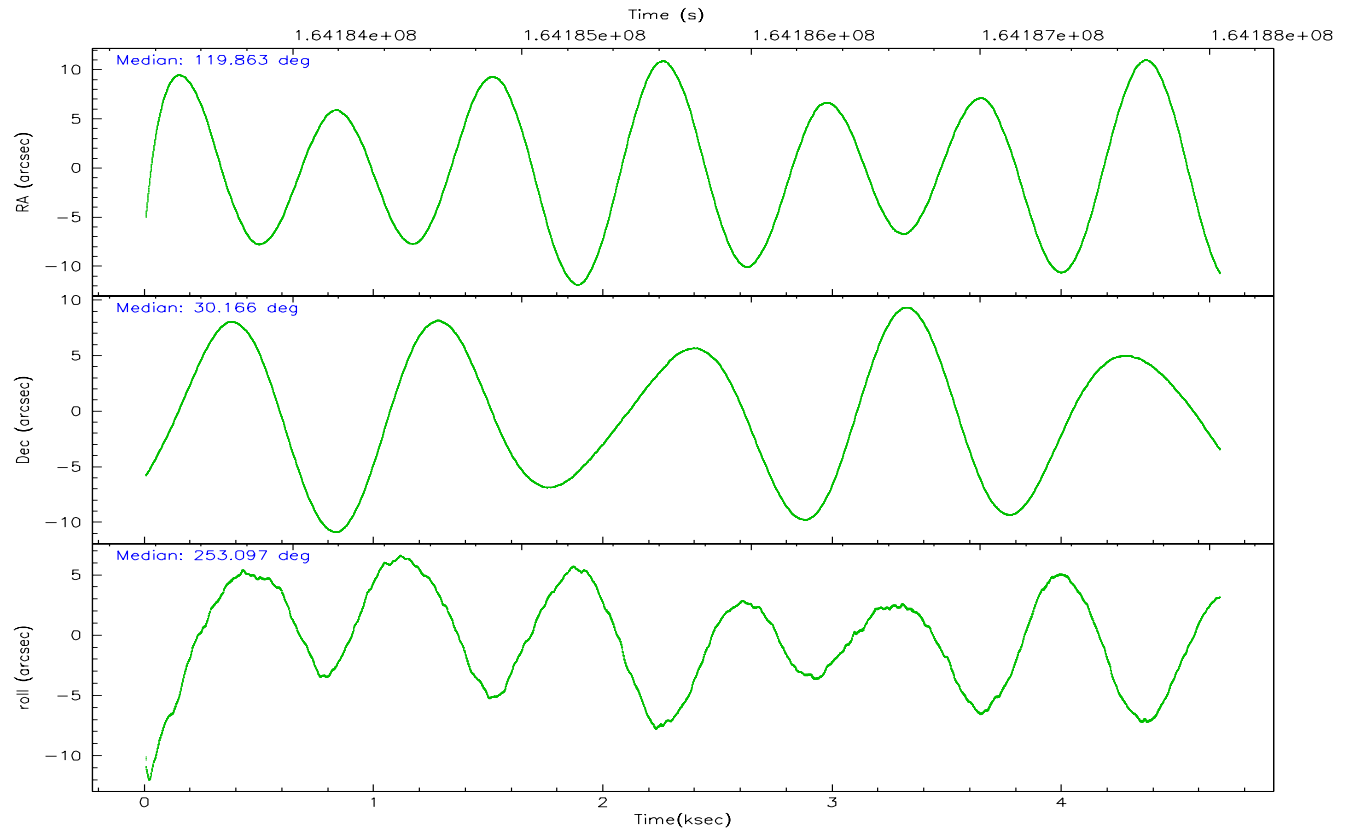
| | ccd 2 | ccd 3 | ccd 5 | ccd 6 | ccd 7 | ccd 8 |
|----------------|-------|-------|-------|-------|-------|-------|
| grade 0 events | 870 | 800 | 1566 | 882 | 896 | 1830 |
| | 3% | 3% | 5% | 3% | 4% | 6% |
| grade 1 events | 10 | 13 | 13 | 11 | 16 | 17 |
| | 0% | 0% | 0% | 0% | 0% | 0% |
| grade 2 events | 508 | 409 | 5054 | 496 | 2711 | 1384 |
| | 1% | 1% | 17% | 2% | 12% | 5% |
| grade 3 events | 252 | 246 | 402 | 260 | 731 | 676 |
| | 0% | 1% | 1% | 1% | 3% | 2% |
| grade 4 events | 259 | 221 | 411 | 258 | 712 | 605 |
| | 1% | 1% | 1% | 1% | 3% | 2% |
| grade 5 events | 609 | 680 | 1529 | 736 | 1694 | 1092 |
| | 2% | 3% | 5% | 3% | 7% | 4% |
| grade 6 events | 344 | 361 | 7929 | 448 | 5964 | 1567 |
| | 1% | 1% | 27% | 1% | 26% | 5% |
| grade 7 events | 22616 | 18318 | 11841 | 19605 | 9501 | 20061 |
| | 88% | 87% | 41% | 86% | 42% | 73% |

2.2 Compared Parameters

| Parameter | Planned | Actual | Parameter | Planned | Actual |
|-----------------------------------|---------------------|----------------------|---------------------------------|-----------|---------|
| Instrument | ACIS | ACIS | Obspar format version number | 6 | 6 |
| Detector | ACIS-235678 | ACIS-235678 | Obspar file type | PREDICTED | ACTUAL |
| Grating | NONE | NONE | Obspar update status | NONE | UPDATED |
| Data mode | VFAINT | VFAINT | On-chip summing requested | N | N |
| Observation mode | POINTING | POINTING | Subarray requested | NONE | NONE |
| Pointing RA | 119.855280 | 119.8629807518192 | Alternating exposures requested | N | N |
| Pointing Dec | 30.192539 | 30.16621131809334 | Primary exposure time | 0.000000 | 3.2 |
| Pointing Roll | 252.949108 | 253.1018463763934 | | | |
| SIM focus pos (mm) | -0.684267 | -0.6828225247311905 | | | |
| SIM defocus (mm) | 0 | 0.001444936568705701 | | | |
| SIM translation stage pos (mm) | -190.132523 | -190.1400660498719 | | | |
| SIM translation stage offset (mm) | 0 | 0.00754346686406393 | | | |
| Observation start time | 164183553.184000 | 164182590.34903 | | | |
| Observation start date | 2003-03-16T06:31:29 | 2003-03-16T06:16:30 | | | |
| Observation end time | 164188053.184000 | 164188682.43679 | | | |
| Observation end date | 2003-03-16T07:46:29 | 2003-03-16T07:58:02 | | | |
| Read mode | TIMED | TIMED | | | |

2.3 Aspect



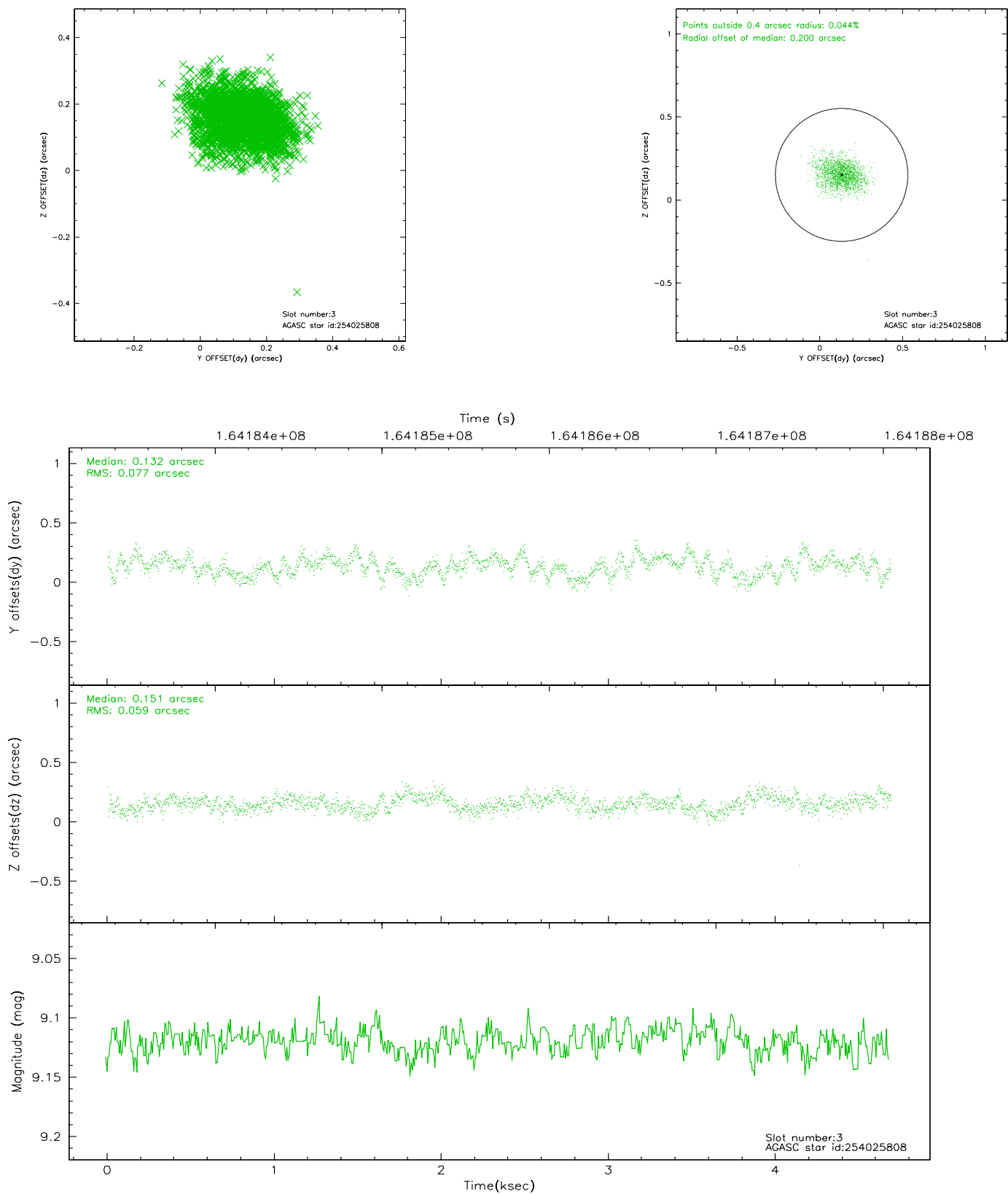


Slot Statistics

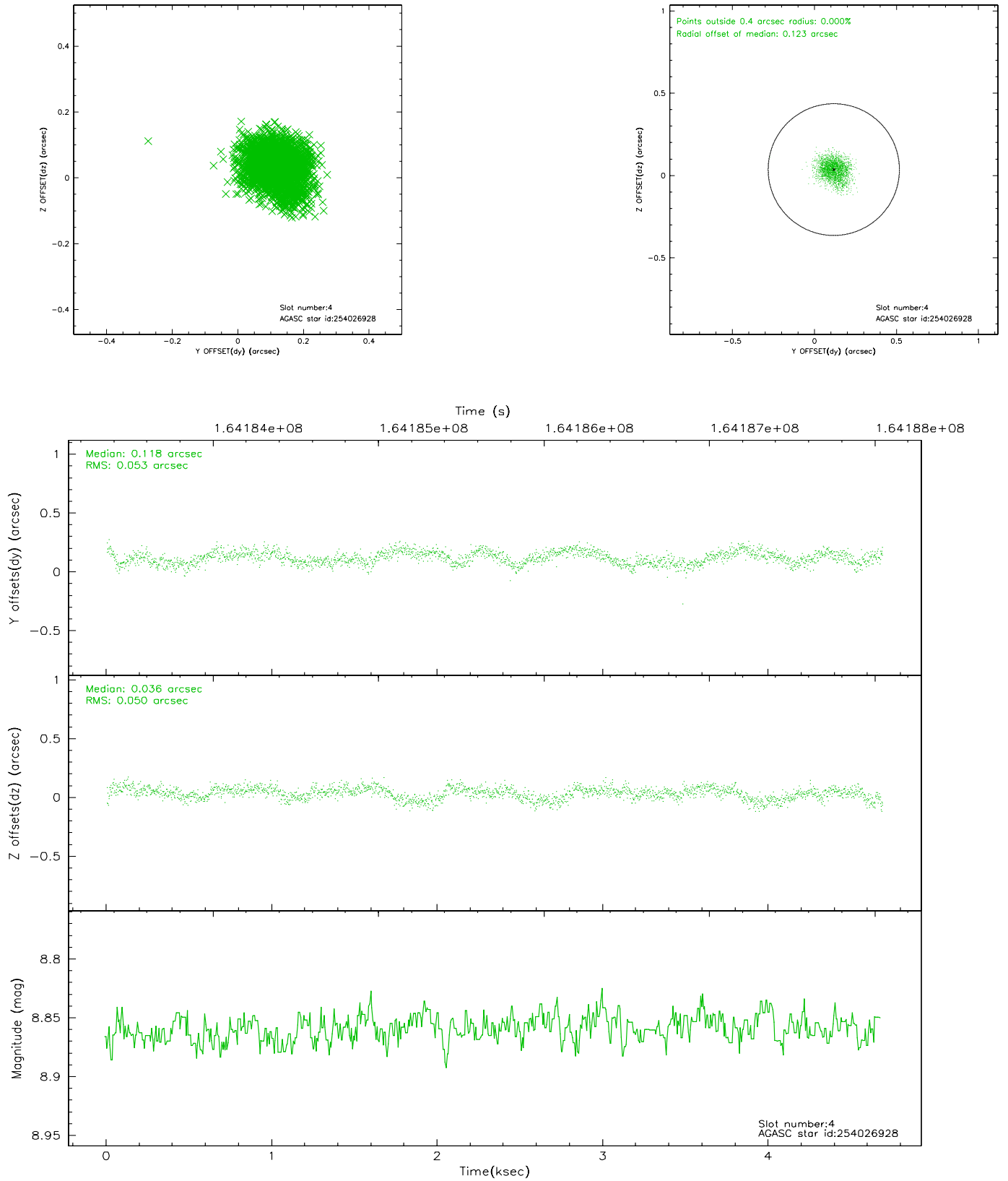
| slot | status | id | mag | n_pts | med_dy | med_dz | dr1 | dr2 | ra | dec | mean_y | mean_z |
|------|--------|-----------|------|-------|--------|--------|-------|-------|------------|-----------|----------|----------|
| 0 | FID | ACIS-S-2 | 7.11 | 1143 | -0.027 | 0.006 | 0.007 | 0.011 | 0.000000 | 0.000000 | -755.75 | -1730.51 |
| 1 | FID | ACIS-S-4 | 7.20 | 1143 | -0.017 | 0.012 | 0.005 | 0.010 | 0.000000 | 0.000000 | 2156.92 | 176.67 |
| 2 | FID | ACIS-S-5 | 7.24 | 1143 | 0.014 | -0.009 | 0.007 | 0.011 | 0.000000 | 0.000000 | -1806.89 | 171.75 |
| 3 | GUIDE | 254025808 | 9.12 | 2285 | 0.132 | 0.151 | 0.103 | 0.168 | 120.362886 | 29.597303 | 1580.18 | 2146.71 |
| 4 | GUIDE | 254026928 | 8.86 | 2286 | 0.118 | 0.036 | 0.077 | 0.124 | 119.623638 | 29.961658 | 1007.37 | -446.13 |
| 5 | GUIDE | 323485760 | 8.44 | 2287 | -0.093 | 0.029 | 0.164 | 0.231 | 119.830490 | 30.449362 | -860.27 | -344.87 |
| 6 | GUIDE | 323490400 | 8.80 | 2285 | -0.139 | 0.004 | 0.079 | 0.121 | 119.791577 | 30.720106 | -1757.73 | -745.69 |
| 7 | GUIDE | 323491200 | 9.22 | 2283 | -0.003 | -0.223 | 0.112 | 0.171 | 119.482346 | 30.465852 | -603.10 | -1395.99 |

2.4 Star Slots

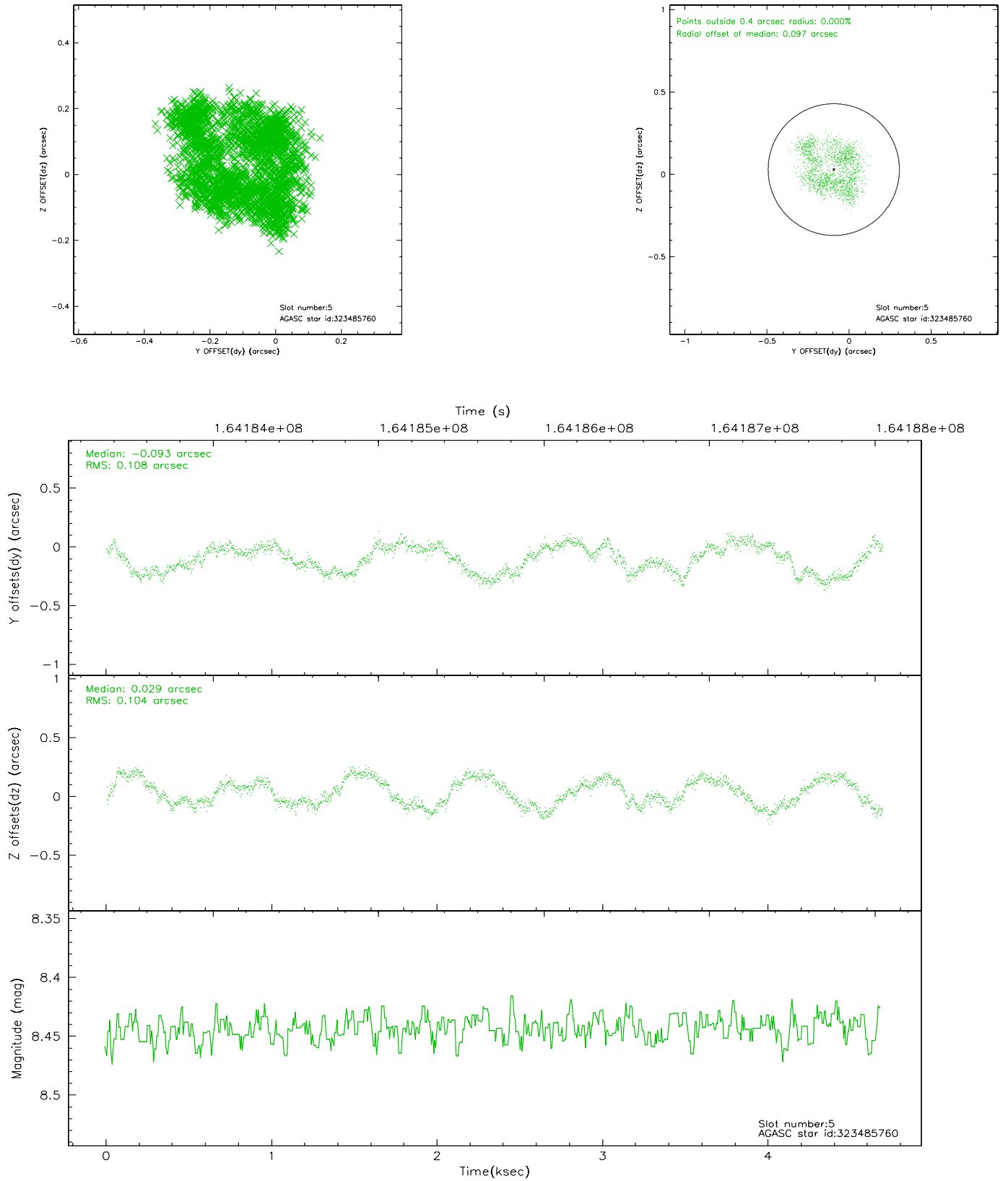
2.4.1 Slot 3



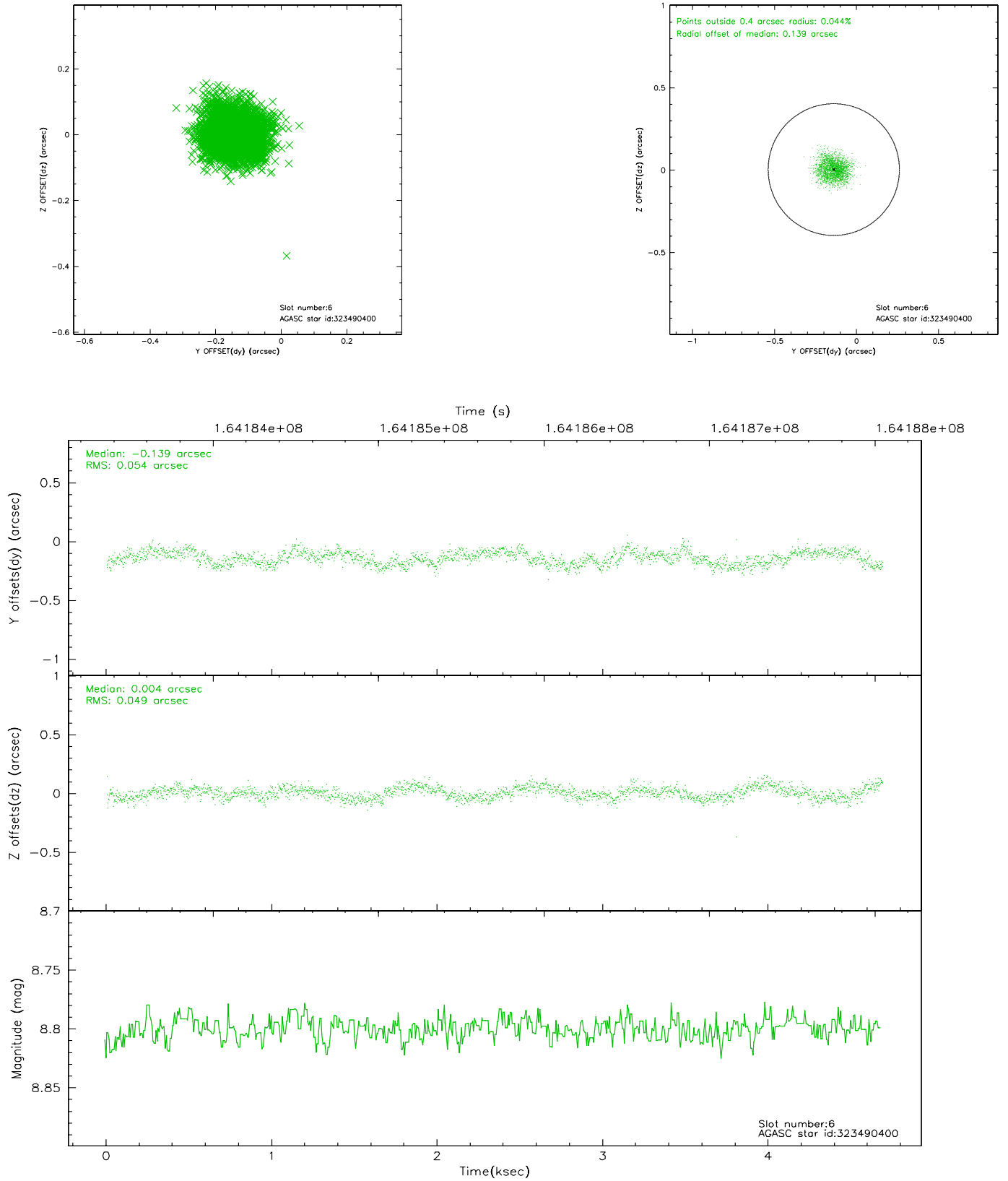
2.4.2 Slot 4



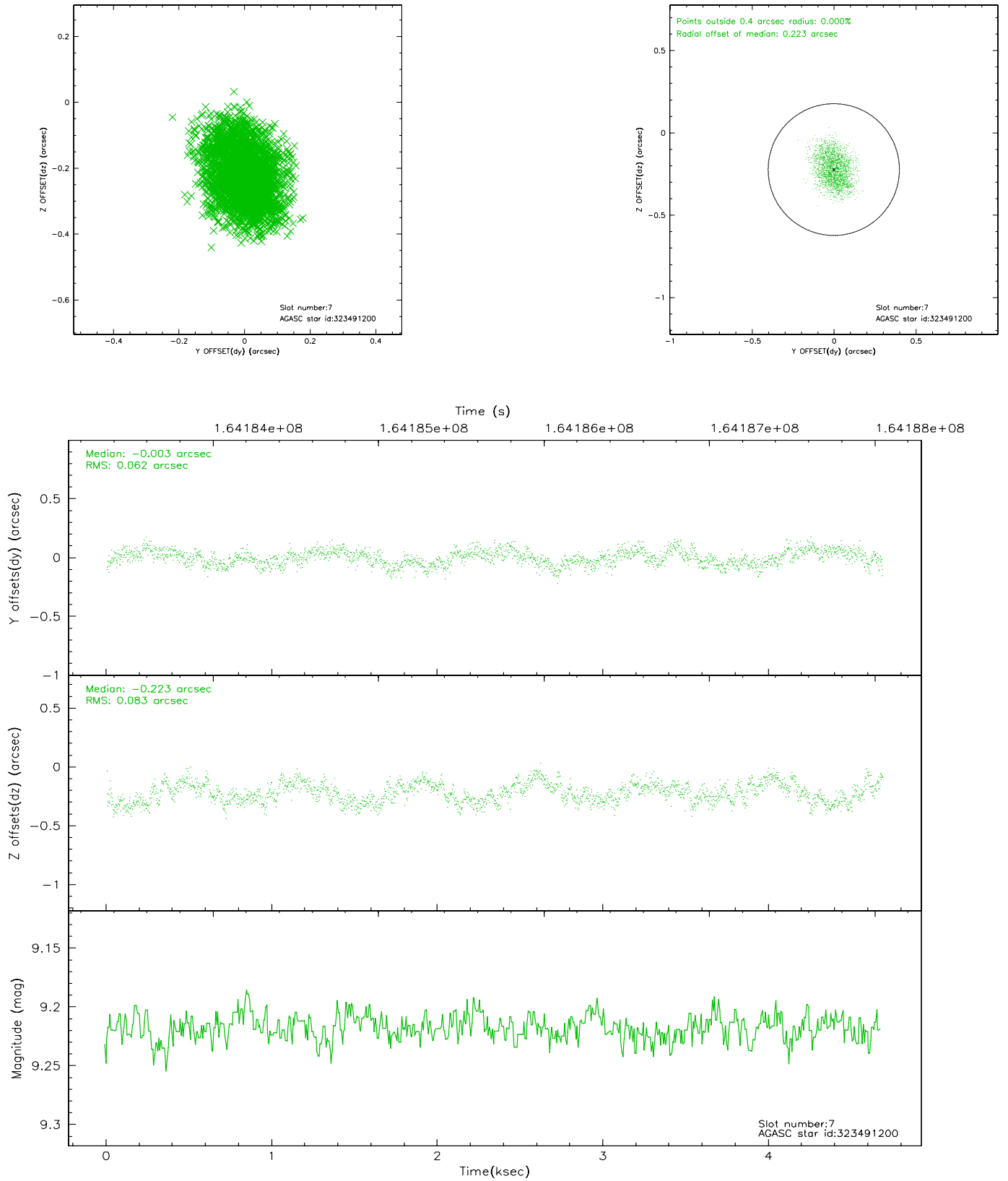
2.4.3 Slot 5



2.4.4 Slot 6

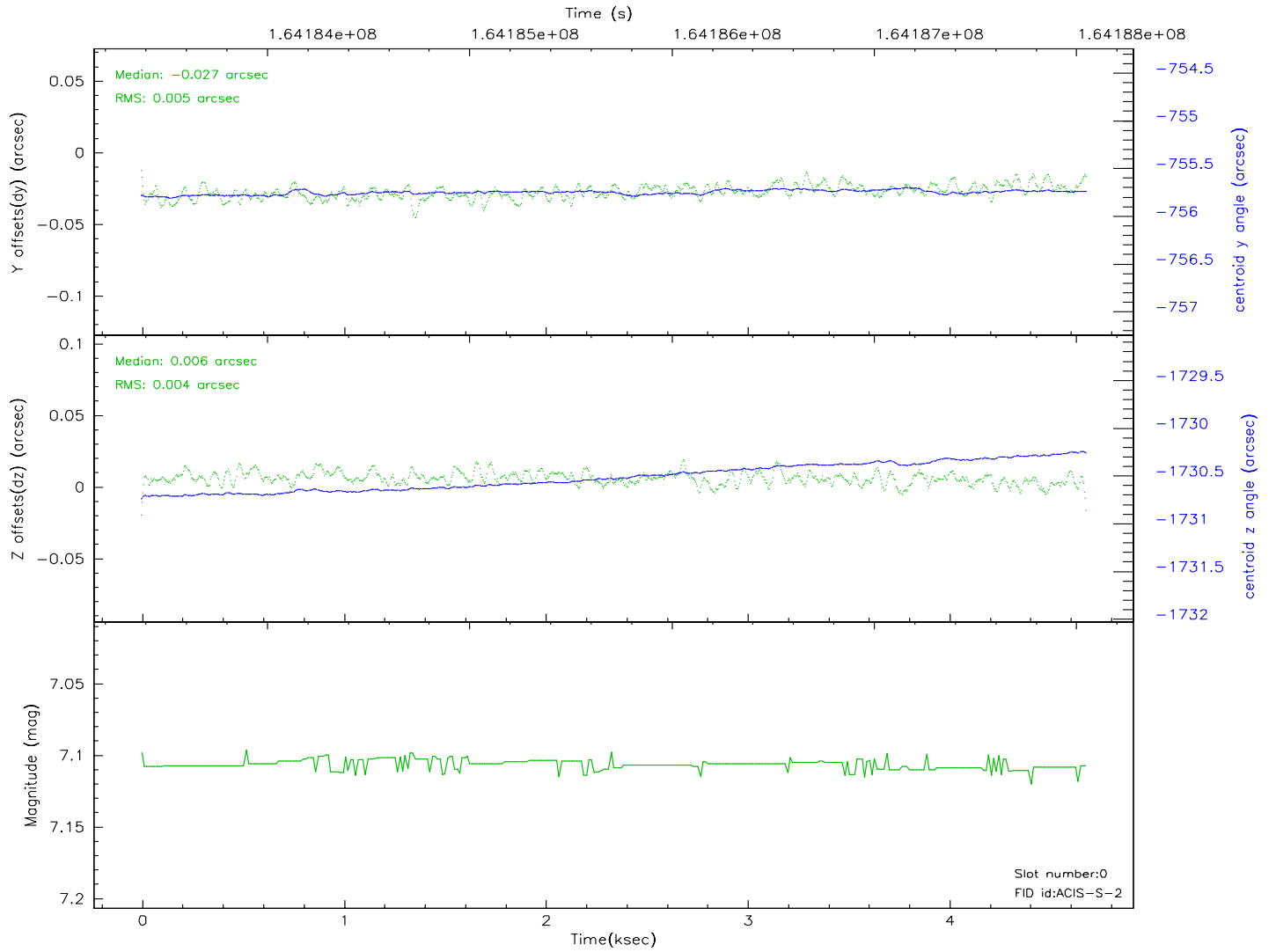
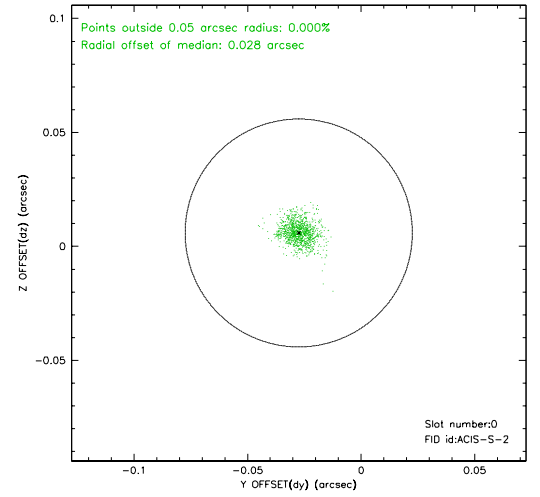
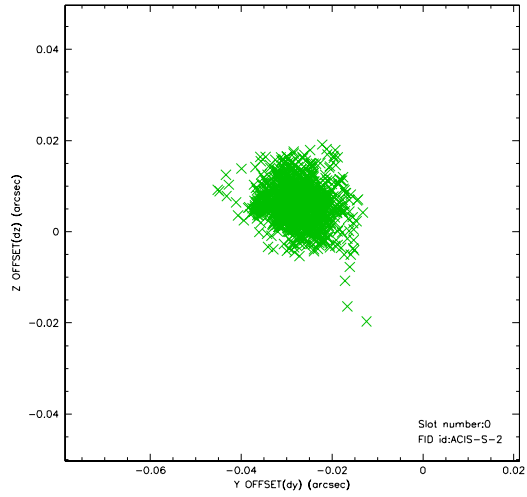


2.4.5 Slot 7

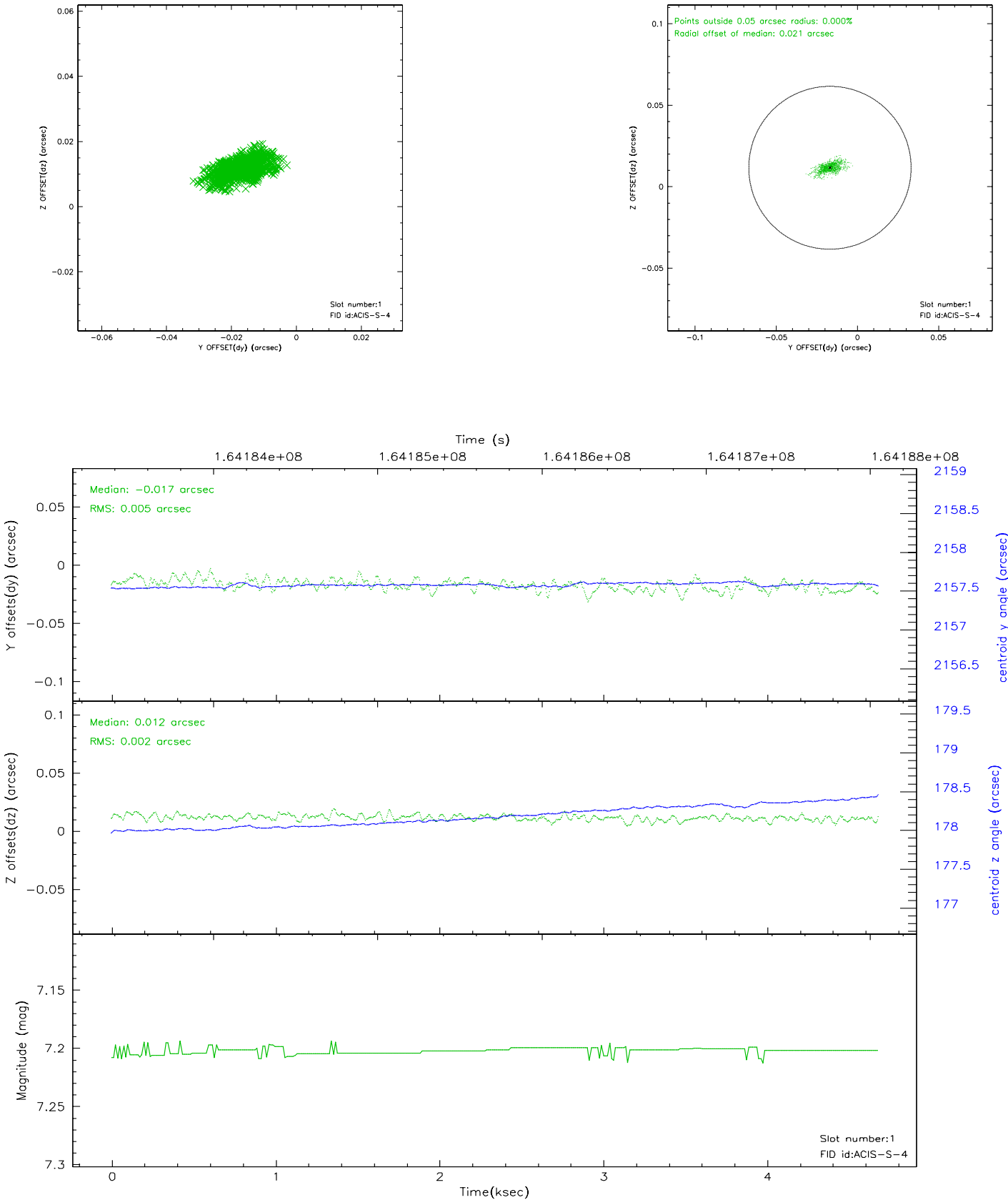


2.5 FID Slots

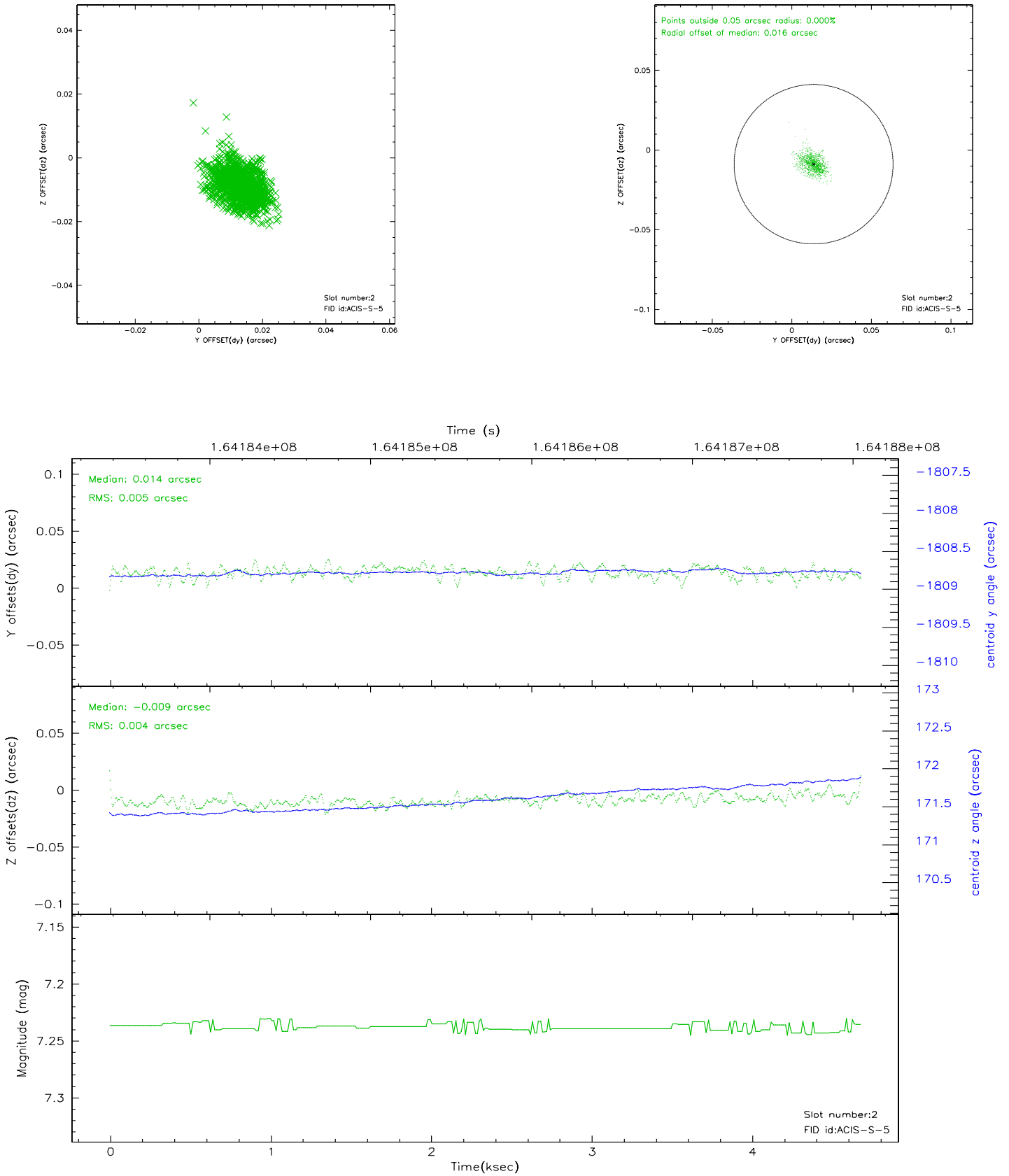
2.5.1 Slot 0



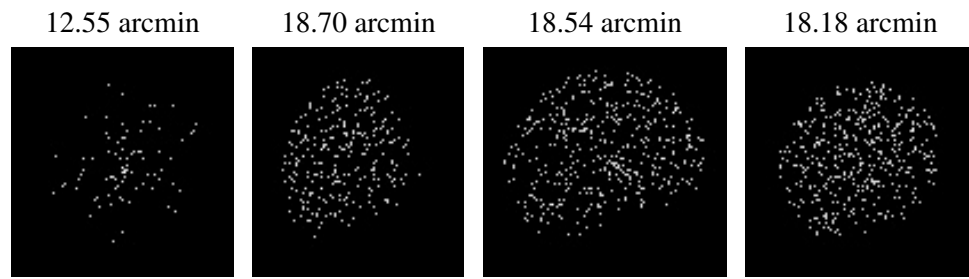
2.5.2 Slot 1



2.5.3 Slot 2



3 Point Sources



A Summary

A.1 Status

| | |
|----------------------------|---------------|
| V&V Scientist | Beth Sundheim |
| V&V Date (YYYY-MM-DD) | 2006.07.24 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 4.467 |

A.2 Comments